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Morbidity and Mortality Weekly Report

U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE

Prepared by the COMMUNICABLE DISEASE CENTER *634-5131*

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PROVISIONAL INFORMATION ON SELECTED NOTIFIABLE DISEASES IN THE UNITED STATES AND ON DEATHS IN SELECTED CITIES FOR WEEK ENDED SEPTEMBER 5, 1964

ENCEPHALITIS

A total of 211 cases of primary encephalitis was reported for the week ended September 5. This brings to 2,024 the cumulative total recorded during 1964.

Of the cases reported during the past week, 148 were from Texas; the remainder were scattered throughout the country. In Texas, the cases were reported principally from 2 epidemic areas, Harris County (Houston) and the South Plains area (Plainview). (See MMWR Vol. 13, pp. 289 and 301)

In addition to the Texas epidemics small outbreaks continued in Illinois and Colorado; an outbreak of 23 cases tentatively identified as St. Louis Encephalitis was recognized this week in Danville, Kentucky.

Epidemiological reports of each of these outbreaks are included in this issue on pages 314, 315, and 320.

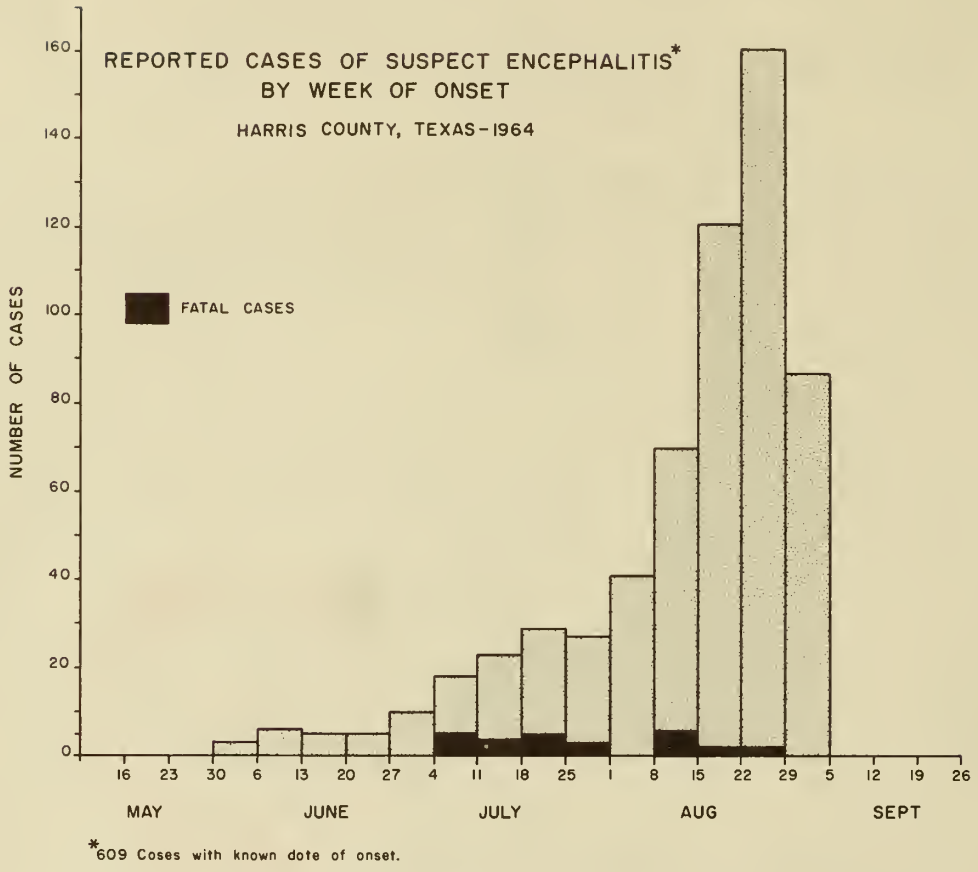
PUBLIC HEALTH SERVICE SEP 1964

Table 1. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
(Cumulative totals include revised and delayed reports through previous weeks)

Disease	36th. Week Ended			Cumulative, First 36 Weeks		
	September 5, 1964	September 7, 1963	Median 1959 - 1963	1964	1963	Median 1959 - 1963
Aseptic meningitis	46	34	---	1,279	1,105	---
Brucellosis	10	12	7	301	260	430
Diphtheria	5	2	8	179	160	380
Encephalitis, primary infectious	211	23	---	2,024	1,089	---
Encephalitis, post-infectious	7		---	681		---
Hepatitis, infectious including serum hepatitis	560	682	682	27,112	30,396	30,396
Measles	540	664	725	433,837	357,669	386,328
Meningococcal infections	41	25	28	1,891	1,745	1,563
Poliomyelitis, Total	3	12	65	76	249	682
Paralytic	1	11	37	62	213	454
Nonparalytic	1	1	---	10	25	---
Unspecified	1	-	---	4	11	---
Streptococcal Sore Throat and Scarlet fever	3,939	2,930	---	291,302	247,743	---
Tetanus	11	5	---	193	172	---
Tularemia	6	2	---	235	197	---
Typhoid fever	14	20	20	285	338	529
Rabies in Animals	81	67	57	3,244	2,681	2,681

Table 2. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:	3	Psittacosis:	30
Botulism:	11	Rabies in Man:	-
Leptospirosis: N.Y. Upstate-1	30	Smallpox:	-
Malaria: Tenn.-1	61	Typhus-	
Plague:	-	Murine:	19
		Rky Mt. Spotted: Md.-1, D.C.-1, Va.-1, Ky.-1, Tenn.-2, Ga.-1, Calif.-1 N.C.-4	174



ENCEPHALITIS

TEXAS

Harris County

Through September 8, a total of 629 suspected cases of St. Louis Encephalitis, including 27 deaths, have been reported from Harris County (Houston), Texas. (See previous reports, MMWR, Vol. 13, pp. 290 and 302)

The epidemic curve for the 609 cases with known date of onset is shown above. A peak in incidence appears to have been reached during the week ended August 29.

The overall attack rate is 50.6 per 100,000. The age specific attack rates, as shown below, are of a similar order of magnitude for age groups less than 60 years. There then follows a progressive rise with advancing age. The attack rate among the non-white population (55.3 per 100,000) is somewhat greater than the rate in the white population (45.0 per 100,000).

AGE AND SEX DISTRIBUTION OF REPORTED VIRAL ENCEPHALITIS
Harris County, Texas
Through September 8, 1964

Age Group	Sex: Male	Sex: Female	Total Cases*	Rate per 100,000**
0-9	78	36	114	37.3
10-19	58	33	91	45.4
20-29	59	54	114	68.0
30-39	33	39	72	36.4
40-49	29	28	57	36.3
50-59	29	29	58	51.6
60-69	30	22	52	82.5
70+	34	25	59	149.3
Unknown	6	5	12	–
	356	271	629	50.6

* 2 cases of unknown sex are included in the totals
** 1960 Census.

The 27 deaths represent a case fatality ratio of 4 percent; 25 of the deaths were in persons over 50 years of age.

Sera from 317 suspected cases have been studied to date. Of these, 11 demonstrate confirmatory evidence (rising titer) of recent infection by St. Louis Encephalitis (SLE) virus, 141 show presumptive evidence (high HAI titer in acute specimens) of SLE infection and 12 are negative. In addition 153 sera are incompletely studied and considered inconclusive.

Isolations of St. Louis Encephalitis virus have been obtained at the Texas State Health Department Laboratory and at CDC from a wild bird (blue jay) and from pools of the mosquito, *Culex Quinquefasciatus*, collected in Harris County.

(Reported by Charles A. Pigford, M.D., Director of Public Health, Houston, Van C. Tipton, M.D., Director, Communicable Disease Division, Texas State Department of Health, and a team from the Communicable Disease Center.)

South Plains Area

Through September 8, 51 cases, including 4 deaths, of suspected encephalitis have been reported from the south plains area of Texas. This represents an increase

of 10 cases and 1 death over the number reported last week (See MMWR, Vol. 13, pp. 291 and 305). Hale County accounts for 58 of the 61 reported cases. Laboratory studies to date have implicated Western Encephalitis virus as the principal responsible agent.

A sustained high incidence is occurring; during the weeks ended August 15, 22 and 29, 13, 11 and 15 cases respectively were reported.

As seen in the table below, the overall attack rate is now 144 per 100,000. The highest rate, 383 per 100,000, is found in the 0-4 age groups.

AGE SPECIFIC ATTACK RATES FOR REPORTED VIRAL ENCEPHALITIS
Hale County, Texas, 1964

Age Group	Populotion*	No. Cases	Attack Rate/100,000
0-4	4,704	18	383
5-9	4,495	8	178
10-19	7,010	4	58
20-29	4,798	9	188
30-39	4,546	9	198
40-59	7,455	5	67
60+	3,790	0	0
Total	36,798	53	144

* 1960 Census

Western Encephalitis virus has been isolated from brain tissue from one of the fatal cases at the CDC Laboratory, Greeley, Colorado. Isolations of Western Encephalitis virus from *Culex tarsalis* mosquito pools were reported previously.

(Reported by Dr. Van C. Tipton, Director, Division of Communicable Disease Control, Texas State Department of Health, and a team from the Communicable Disease Center.)

ILLINOIS

Since July 29, a total of 26 cases of suspected encephalitis, including 2 deaths, have been reported from scattered areas in southern Illinois. Nine of the cases and both deaths occurred in McLeansboro, Hamilton County (see MMWR, Vol. 13, page 305). All of the McLeansboro patients were over 70 years of age; cases in other areas range from 6 to 82 years.

Serologic confirmation of infection with St. Louis Encephalitis virus has been obtained in 4 of the McLeansboro cases thus far.

In addition to the human cases, 31 cases of horse encephalitis have been reported during the past 2 weeks. These cases are geographically dispersed throughout the state. Further studies are in progress.

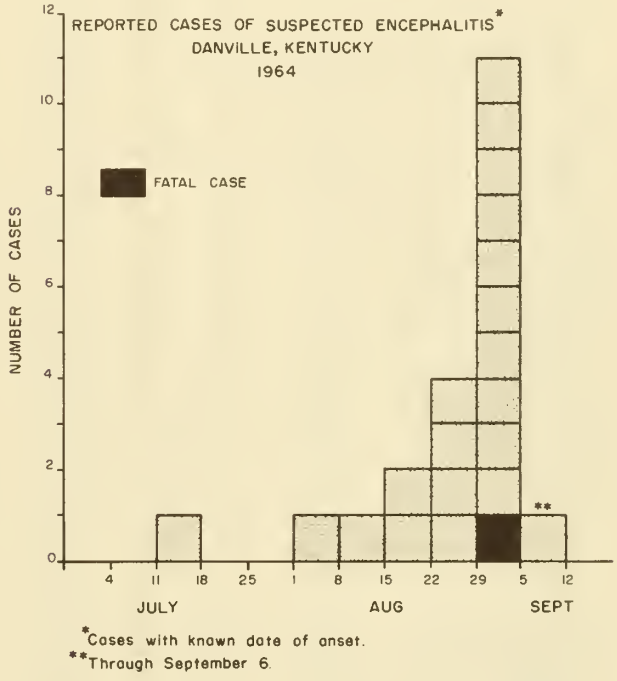
(Reported by Norman J. Rose, M.D., Chief, Bureau of Epidemiology, Illinois Department of Public Health, and a team from CDC).

KENTUCKY

Danville

Twenty-three cases of suspected encephalitis, including one death, were reported from Danville, Kentucky. Laboratory studies have tentatively identified St. Louis Encephalitis virus as the responsible agent.

The earliest case experienced an onset of illness on July 12; most, however, occurred during late August and early September:



The age distribution of the cases ranges from 4 to 89 years. For the 20 patients with known ages, 6 are under 20 years-of-age, 10 are between 20 and 59 years, and 4 are age 70 or older. The sex distribution is approximately equal. The only fatality occurred in an 89 year old female.

Clinically, symptoms of severe, persistent headache and high fever have been characteristic of most cases. Additional symptoms have included vomiting, coma, and slurred speech. Cerebrospinal fluid examinations have revealed pleocytosis and elevated CSF protein levels in cases studied. Complement fixation studies conducted at the Kentucky State Health Department Laboratories revealed presumptive serologic evidence of St. Louis Encephalitis virus infection in sera from 2 of the cases studied to date.

(Reported by Dr. Russell E. Teague, Commissioner of Health, Kentucky State Department of Health.)

(Encephalitis, continued on page 320)

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
SEPTEMBER 5, 1964 AND SEPTEMBER 7, 1963 (36th WEEK)

Area	Aseptic Meningitis		Encephalitis Primary	Encephalitis Post-Inf.	Poliomyelitis, Total Cases				Poliomyelitis, Paralytic			
							Cumulative				Cumulative	
	1964	1963	1964	1964	1964	1963	1964	1963	1964	1963	1964	1963
UNITED STATES...	46	34	211	7	3	12	76	249	1	11	62	213
NEW ENGLAND.....	1	-	1	-	-	-	1	4	-	-	1	4
Maine.....	-	-	-	-	-	-	-	1	-	-	-	1
New Hampshire.....	-	-	-	-	-	-	-	-	-	-	-	-
Vermont.....	-	-	-	-	-	-	-	1	-	-	-	1
Massachusetts.....	1	-	-	-	-	-	-	2	-	-	-	2
Rhode Island.....	-	-	1	-	-	-	-	-	-	-	-	-
Connecticut.....	-	-	-	-	-	-	2	-	-	-	1	-
MIDDLE ATLANTIC.....	7	7	10	2	-	4	12	84	-	4	11	66
New York City.....	1	3	3	-	-	-	1	-	-	-	1	-
New York, Up-State.	-	3	-	1	-	-	9	7	-	-	8	5
New Jersey.....	3	-	5	-	-	-	2	1	-	-	2	1
Pennsylvania.....	3	1	2	1	-	4	-	76	-	4	-	60
EAST NORTH CENTRAL...	6	6	11	1	2	-	13	31	1	-	11	23
Ohio.....	3	-	4	-	-	-	2	8	-	-	2	4
Indiana.....	-	-	-	-	-	-	2	2	-	-	2	1
Illinois.....	2	2	7	1	-	-	4	12	-	-	4	11
Michigan.....	1	4	-	-	1	-	3	5	1	-	2	5
Wisconsin.....	-	-	-	-	1	-	2	4	-	-	1	2
WEST NORTH CENTRAL...	7	2	1	-	-	-	5	5	-	-	4	4
Minnesota.....	7	2	-	-	-	-	1	3	-	-	1	3
Iowa.....	-	-	-	-	-	-	-	-	-	-	-	-
Missouri.....	-	-	-	-	-	-	3	-	-	-	2	-
North Dakota.....	-	-	-	-	-	-	-	1	-	-	-	-
South Dakota.....	-	-	1	-	-	-	-	-	-	-	-	-
Nebraska.....	-	-	-	-	-	-	-	1	-	-	-	1
Kansas.....	-	-	-	-	-	-	1	-	-	-	1	-
SOUTH ATLANTIC.....	1	1	16	1	-	1	23	31	-	1	18	28
Delaware.....	-	-	-	-	-	-	-	1	-	-	-	1
Maryland.....	-	-	1	-	-	-	1	-	-	-	1	-
Dist. of Columbia..	-	-	-	-	-	-	-	-	-	-	-	-
Virginia.....	1	1	1	-	-	-	-	2	-	-	-	1
West Virginia.....	-	-	-	-	-	-	1	2	-	-	1	2
North Carolina.....	-	-	2	-	-	-	9	3	-	-	5	3
South Carolina.....	-	-	2	1	-	-	2	5	-	-	2	4
Georgia.....	-	-	3	-	-	1	1	11	-	1	1	10
Florida.....	-	-	7	-	-	-	9	7	-	-	8	7
EAST SOUTH CENTRAL...	2	5	6	-	-	6	5	51	-	6	4	49
Kentucky.....	-	4	-	-	-	-	-	-	-	-	-	-
Tennessee.....	1	-	4	-	-	2	3	9	-	2	2	9
Alabama.....	1	1	-	-	-	4	2	39	-	4	2	37
Mississippi.....	-	-	2	-	-	-	-	3	-	-	-	3
WEST SOUTH CENTRAL...	5	1	156	-	1	1	7	22	-	-	6	21
Arkansas.....	-	-	7	-	-	1	-	4	-	-	-	3
Louisiana.....	1	-	1	-	-	-	-	13	-	-	-	13
Oklahoma.....	-	1	-	-	-	-	2	-	-	-	2	-
Texas.....	4	-	148	-	1	-	5	5	-	-	4	5
MOUNTAIN.....	2	-	4	-	-	-	7	2	-	-	4	1
Montana.....	-	-	-	-	-	-	1	-	-	-	1	-
Idaho.....	-	-	-	-	-	-	-	1	-	-	-	1
Wyoming.....	-	-	-	-	-	-	2	-	-	-	2	-
Colorado.....	1	-	4	-	-	-	1	-	-	-	1	-
New Mexico.....	-	-	-	-	-	-	3	1	-	-	-	-
Arizona.....	1	-	-	-	-	-	-	-	-	-	-	-
Utah.....	-	-	-	-	-	-	-	-	-	-	-	-
Nevada.....	-	-	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	15	12	6	3	-	-	3	19	-	-	3	17
Washington.....	3	5	2	-	-	-	-	2	-	-	-	2
Oregon.....	-	1	-	-	-	-	1	2	-	-	1	1
California.....	12	6	4	3	-	-	2	15	-	-	2	14
Alaska.....	-	-	-	-	-	-	-	-	-	-	-	-
Hawaii.....	-	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	---	-	---	---	---	-	-	4	---	-	-	4

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
SEPTEMBER 5, 1964 AND SEPTEMBER 7, 1963 (36th WEEK) - Continued

Area	Brucellosis		Diphtheria		Infectious Hepatitis including Serum Hepatitis						Typhoid Fever	
		Cum.		Cum.	Total	Under 20 years	20 years and over	Age Unknown	Cumulative			Cum.
	1964	1964	1964	1964	1964	1964	1964	1964	1964	1963	1964	1964
UNITED STATES...	10	301	5	179	560	256	269	35	27,112	30,396	14	285
NEW ENGLAND.....	-	2	-	44	36	20	15	1	2,540	3,283	-	13
Maine.....	-	-	-	39	10	6	4	-	814	1,490	-	-
New Hampshire.....	-	-	-	-	9	3	6	-	198	322	-	-
Vermont.....	-	-	-	-	2	1	-	1	317	55	-	-
Massachusetts.....	-	2	-	5	9	6	3	-	546	918	-	6
Rhode Island.....	-	-	-	-	4	3	1	-	134	76	-	6
Connecticut.....	-	-	-	-	2	1	1	-	531	422	-	1
MIDDLE ATLANTIC.....	-	5	-	7	114	46	68	-	6,047	5,971	-	41
New York City.....	-	-	-	3	23	8	15	-	922	915	-	16
New York, Up-State.	-	2	-	-	28	15	13	-	2,665	2,615	-	9
New Jersey.....	-	-	-	2	20	2	18	-	1,050	892	-	1
Pennsylvania.....	-	3	-	2	43	21	22	-	1,410	1,549	-	15
EAST NORTH CENTRAL...	-	41	-	8	101	43	56	2	4,254	4,935	4	67
Ohio.....	-	2	-	-	22	12	10	-	1,117	1,367	-	22
Indiana.....	-	1	-	1	4	-	4	-	361	440	3	16
Illinois.....	-	26	-	6	27	11	15	1	784	1,063	1	17
Michigan.....	-	6	-	1	47	20	27	-	1,684	1,841	-	9
Wisconsin.....	-	6	-	-	1	-	-	1	308	224	-	3
WEST NORTH CENTRAL...	4	131	-	26	32	12	15	5	1,460	1,367	1	27
Minnesota.....	-	7	-	11	7	5	2	-	162	209	-	3
Iowa.....	1	83	-	-	1	-	-	1	212	249	-	4
Missouri.....	1	10	-	1	11	6	5	-	363	500	1	10
North Dakota.....	-	2	-	2	-	-	-	-	55	46	-	2
South Dakota.....	1	15	-	1	-	-	-	-	116	96	-	1
Nebraska.....	1	12	-	4	4	-	-	4	39	94	-	3
Kansas.....	-	2	-	7	9	1	8	-	513	173	-	4
SOUTH ATLANTIC.....	1	28	1	41	56	33	21	2	2,556	3,111	3	62
Delaware.....	-	-	-	-	-	-	-	-	48	55	-	-
Maryland.....	-	-	-	-	7	5	2	-	483	380	-	4
Dist. of Columbia..	-	-	-	-	-	-	-	-	43	83	-	-
Virginia.....	-	13	-	-	6	3	3	-	396	643	1	11
West Virginia.....	-	-	-	-	7	4	3	-	381	476	-	-
North Carolina.....	-	3	-	-	9	8	1	-	442	794	1	18
South Carolina.....	-	-	-	7	2	1	-	1	94	131	-	11
Georgia.....	1	9	1	21	5	3	2	-	70	129	1	4
Florida.....	-	3	-	13	20	9	10	1	599	420	-	14
EAST SOUTH CENTRAL...	-	15	4	10	42	19	22	1	1,868	2,931	-	27
Kentucky.....	-	4	-	-	10	6	3	1	709	829	-	7
Tennessee.....	-	5	-	1	22	10	12	-	648	1,139	-	13
Alabama.....	-	4	3	6	4	2	2	-	333	471	-	5
Mississippi.....	-	2	1	3	6	1	5	-	178	492	-	2
WEST SOUTH CENTRAL...	3	34	-	27	52	30	19	3	2,078	2,152	2	21
Arkansas.....	1	6	-	-	10	5	5	-	209	244	2	11
Louisiana.....	-	4	-	5	12	6	6	-	484	431	-	3
Oklahoma.....	2	6	-	-	-	-	-	-	101	99	-	4
Texas.....	-	18	-	22	30	19	8	3	1,284	1,378	-	3
MOUNTAIN.....	2	27	-	2	21	3	2	16	1,637	1,957	-	7
Montana.....	-	-	-	-	2	1	1	-	143	251	-	-
Idaho.....	-	-	-	-	4	-	-	4	212	318	-	-
Wyoming.....	-	-	-	-	-	-	-	-	50	25	-	1
Colorado.....	-	-	-	-	7	-	1	6	443	403	-	-
New Mexico.....	-	1	-	1	2	2	-	-	234	227	-	2
Arizona.....	-	2	-	1	6	-	-	6	368	452	-	4
Utah.....	2	23	-	-	-	-	-	-	137	264	-	-
Nevada.....	-	1	-	-	-	-	-	-	50	17	-	-
PACIFIC.....	-	18	-	14	106	50	51	5	4,672	4,689	4	20
Washington.....	-	-	-	13	8	4	4	-	494	823	-	2
Oregon.....	-	2	-	-	8	1	5	2	513	569	-	-
California.....	-	16	-	1	75	35	40	-	3,414	3,149	4	18
Alaska.....	-	-	-	-	12	9	-	3	153	115	-	-
Hawaii.....	-	-	-	-	3	1	2	-	98	33	-	-
Puerto Rico	---	-	---	9	---	---	---	---	635	588	---	10

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
SEPTEMBER 5, 1964 AND SEPTEMBER 7, 1963 (36th WEEK) - Continued

Area	Measles	Meningococcal Meningitis			Streptococcal Sore Throat and Scarlet Fever		Tetanus		Tularemia		Rabies in Animals	
			Cumulative					Cum.		Cum.		Cum.
	1964	1964	1964	1963	1964	1963	1964	1964	1964	1964	1964	1964
UNITED STATES...	540	41	1,891	1,745	3,939	2,930	11	193	6	235	81	3,244
NEW ENGLAND.....	40	3	55	109	278	154	-	8	-	1	-	29
Maine.....	13	-	5	17	87	11	-	-	-	-	-	25
New Hampshire.....	2	-	1	4	-	3	-	-	-	-	-	1
Vermont.....	-	-	1	4	-	16	-	-	-	-	-	2
Massachusetts.....	20	1	22	51	11	9	-	8	-	1	-	1
Rhode Island.....	2	1	9	10	3	12	-	-	-	-	-	-
Connecticut.....	3	1	17	23	177	103	-	-	-	-	-	-
MIDDLE ATLANTIC.....	46	5	256	243	127	63	-	19	-	-	5	93
New York City.....	11	-	35	39	12	4	-	-	-	-	-	-
New York, Up-State.	22	-	71	75	93	41	-	7	-	-	5	89
New Jersey.....	12	3	88	34	19	8	-	6	-	-	-	-
Pennsylvania.....	1	2	62	95	3	10	-	6	-	-	-	4
EAST NORTH CENTRAL...	96	8	272	266	353	147	1	33	1	20	7	447
Ohio.....	7	1	70	76	19	19	-	9	-	1	-	229
Indiana.....	22	2	43	31	160	36	-	5	-	2	1	22
Illinois.....	11	1	68	51	36	24	1	12	1	13	4	91
Michigan.....	33	3	62	81	93	40	-	6	-	1	1	45
Wisconsin.....	23	1	29	27	45	28	-	1	-	3	1	60
WEST NORTH CENTRAL...	7	3	121	113	99	78	-	9	1	49	20	1,030
Minnesota.....	-	1	28	22	5	3	-	1	-	2	4	314
Iowa.....	-	-	6	6	12	7	-	3	-	1	8	371
Missouri.....	1	1	56	33	-	-	-	3	-	24	5	158
North Dakota.....	6	-	16	12	79	65	-	-	-	-	1	54
South Dakota.....	-	1	1	5	3	-	-	1	1	14	2	76
Nebraska.....	-	-	6	24	-	2	-	-	-	-	-	31
Kansas.....	NN	-	8	11	-	1	-	1	-	8	-	26
SOUTH ATLANTIC.....	58	7	401	320	523	350	-	53	-	21	10	442
Delaware.....	-	-	6	2	12	7	-	-	-	-	-	-
Maryland.....	4	-	26	49	15	3	-	3	-	-	1	1
Dist. of Columbia..	-	-	12	6	2	-	-	1	-	1	-	-
Virginia.....	2	-	46	73	113	87	-	6	-	4	6	234
West Virginia.....	23	1	31	16	148	120	-	1	-	-	-	26
North Carolina.....	4	-	69	55	10	8	-	13	-	5	-	5
South Carolina.....	2	-	50	15	6	43	-	4	-	-	-	2
Georgia.....	2	5	60	25	19	-	-	4	-	11	2	99
Florida.....	21	1	101	79	198	82	-	21	-	-	1	75
EAST SOUTH CENTRAL...	90	6	165	129	759	669	5	25	1	26	11	386
Kentucky.....	7	-	52	29	70	80	2	7	-	1	3	54
Tennessee.....	75	-	54	57	664	543	1	10	-	17	8	316
Alabama.....	6	-	35	21	10	9	-	5	-	3	-	16
Mississippi.....	2	6	24	22	15	37	2	3	1	5	-	-
WEST SOUTH CENTRAL...	67	4	173	164	571	526	3	21	2	77	10	469
Arkansas.....	-	-	20	11	-	-	1	7	2	43	3	116
Louisiana.....	1	3	114	67	2	-	-	3	-	3	2	42
Oklahoma.....	-	-	8	29	6	11	-	-	-	19	-	81
Texas.....	66	1	31	57	563	515	2	11	-	12	5	230
MOUNTAIN.....	58	-	66	59	699	538	-	5	1	38	2	115
Montana.....	9	-	-	3	27	42	-	-	-	18	-	-
Idaho.....	8	-	3	6	75	40	-	-	-	-	-	-
Wyoming.....	9	-	5	4	11	2	-	2	-	7	-	-
Colorado.....	21	-	11	16	283	136	-	-	-	-	-	8
New Mexico.....	1	-	27	4	139	138	-	1	-	-	-	47
Arizona.....	7	-	5	9	81	71	-	1	-	-	2	50
Utah.....	3	-	7	14	83	109	-	1	1	13	-	1
Nevada.....	-	-	8	3	-	-	-	-	-	-	-	9
PACIFIC.....	78	5	382	342	530	405	2	20	-	3	16	233
Washington.....	7	1	30	26	37	70	-	1	-	-	-	-
Oregon.....	21	-	21	25	9	6	-	-	-	1	-	8
California.....	31	4	312	271	423	291	2	18	-	2	16	225
Alaska.....	-	-	7	12	18	18	-	-	-	-	-	-
Hawaii.....	19	-	12	8	43	20	-	1	-	-	-	-
Puerto Rico	---	---	29	7	---	5	---	55	---	-	---	18

Table 4 (D) TOTAL DEATHS AMONG PERSONS 65 YEARS AND OVER IN REPORTING CITIES

(Tables 4(A), 4(B), 4(C), and 4(D) will be published in sequence covering a four-week period.)°

Area	For weeks ending			
	8/15	8/22	8/29	9/5
NEW ENGLAND:				
Boston, Mass.	126	139	110	135
Bridgeport, Conn.	23	20	17	20
Cambridge, Mass.	15	13	11	13
Fall River, Mass.	12	26	19	18
Hartford, Conn.	31	19	25	19
Lowell, Mass.	15	14	18	15
Lynn, Mass.	10	16	17	25
New Bedford, Mass.	13	14	19	19
New Haven, Conn.	22	21	22	28
Providence, R.I.	50	21	30	31
Somerville, Mass.	6	9	6	6
Springfield, Mass.	33	34	30	34
Waterbury, Conn.	20	14	23	14
Worcester, Mass.	35	33	35	46
MIDDLE ATLANTIC:				
Albany, N.Y.	15	25	14	19
Allentown, Pa.	29	23	34	23
Buffalo, N.Y.	78	67	60	71
Camden, N.J.	14	21	33	27
Elizabeth, N.J.	17	17	15	13
Erie, Pa.	18	22	16	20
Jersey City, N.J.	40	31	42	42
Newark, N.J.	40	38	33	57
New York City, N.Y.	781	834	879	906
Paterson, N.J.	24	11	19	14
Philadelphia, Pa.	159	338	306	263
Pittsburgh, Pa.	108	86	83	94
Reading, Pa.	26	20	30	33
Rochester, N.Y.	56	51	40	70
Schenectady, N.Y.	12	14	9	19
Scranton, Pa.	25	17	24	17
Syracuse, N.Y.	33	31	29	28
Trenton, N.J.	19	21	29	21
Utica, N.Y.	14	20	21	15
Yonkers, N.Y.	12	28	19	16
EAST NORTH CENTRAL:				
Akron, Ohio	24	27	31	27
Canton, Ohio	21	23	22	14
Chicago, Ill.	345	341	351	381
Cincinnati, Ohio	103	90	107	80
Cleveland, Ohio	86	76	88	129
Columbus, Ohio	48	63	63	52
Dayton, Ohio	52	46	46	56
Detroit, Mich.	173	168	169	207
Evansville, Ind.	30	21	35	28
Flint, Mich.	25	6	14	33
Fort Wayne, Ind.	16	25	26	23
Gary, Ind.	15	13	16	4
Grand Rapids, Mich.	30	32	18	30
Indianapolis, Ind.	88	67	70	72
Madison, Wis.	20	25	10	23
Milwaukee, Wis.	68	60	69	63
Peoria, Ill.	8	7	17	9
Rockford, Ill.	15	16	17	18
South Bend, Ind.	22	12	19	12
Toledo, Ohio	52	58	54	44
Youngstown, Ohio	31	31	41	37
WEST NORTH CENTRAL:				
Des Moines, Iowa	42	45	31	29
Duluth, Minn.	8	12	15	16
Kansas City, Kans.	18	21	25	19*
Kansas City, Mo.	92	74	51	64
Lincoln, Nebr.	18	22	21	18
Minneapolis, Minn.	99	58	66	64*
Omaha, Nebr.	53	41	38	42
St. Louis, Mo.	154	128	155	138
St. Paul, Minn.	40	34	50	38
Wichita, Kans.	28	26	22	25
SOUTH ATLANTIC:				
Atlanta, Ga.	48	49	56	44
Baltimore, Md.	115	115	141	135
Charlotte, N.C.	10	16	20	27
Jacksonville, Fla.	30	21	24	36
Miami, Fla.	43	39	54	50
Norfolk, Va.	21	21	17	28
Richmond, Va.	40	43	36	35
Savannah, Ga.	8	15	11	7
St. Petersburg, Fla.	62	50	50	47
Tampa, Fla.	49	30	41	38
Washington, D.C.	61	87	84	86
Wilmington, Del.	20	22	23	20
EAST SOUTH CENTRAL:				
Birmingham, Ala.	37	44	37	49
Chattanooga, Tenn.	17	30	13	24
Knoxville, Tenn.	26	18	14	24
Louisville, Ky.	61	35	76	54
Memphis, Tenn.	63	46	50	54
Mobile, Ala.	16	19	18	37
Montgomery, Ala.	13	9	15	19
Nashville, Tenn.	54	39	40	53
WEST SOUTH CENTRAL:				
Austin, Tex.	25	19	18	20
Baton Rouge, La.	17	7	11	21
Corpus Christi, Tex.	16	12	16	7
Dallas, Tex.	66	62	59	49
El Paso, Tex.	15	19	10	10
Fort Worth, Tex.	38	40	36	34
Houston, Tex.	102	79	92	71
Little Rock, Ark.	30	31	22	26
New Orleans, La.	92	79	92	93
Oklahoma City, Okla.	53	32	22	36
San Antonio, Tex.	48	53	39	46
Shreveport, La.	26	26	27	22
Tulsa, Okla.	46	36	22	37
MOUNTAIN:				
Albuquerque, N. Mex.	15	11	15	14
Colorado Springs, Colo.	18	13	11	13
Denver, Colo.	61	50	55	84
Ogden, Utah.	14	4	10	8
Phoenix, Ariz.	51	38	34	34
Pueblo, Colo.	10	10	6	6
Salt Lake City, Utah.	29	21	37	24
Tucson, Ariz.	22	22	23	27
PACIFIC:				
Berkeley, Calif.	10	8	7	14
Fresno, Calif.	28	21	18	26
Glendale, Calif.	30	20	20	20
Honolulu, Hawaii	15	25	20	20
Long Beach, Calif.	32	35	43	41
Los Angeles, Calif.	251	259	238	274
Oakland, Calif.	63	45	44	51
Pasadena, Calif.	19	19	28	25
Portland, Oreg.	48	35	82	71
Sacramento, Calif.	37	27	32	31
San Diego, Calif.	47	44	53	51
San Francisco, Calif.	100	97	105	87
San Jose, Calif.	17	12	26	19
Seattle, Wash.	70	73	80	62
Spokane, Wash.	24	26	38	29
Tacoma, Wash.	24	23	22	23

*Estimate - based on average percent of divisional total.
Totals for previous weeks include reported corrections.

NOTE: All deaths by place of occurrence.

°Current Week Mortality for 108 Selected Cities

4(A) Total Mortality, all ages	11,178
4(B) Pneumonia-Influenza Deaths, all ages	428
4(C) Total Deaths under 1 Year of Age	790
4(D) Total Deaths, Persons 65 years and over	6,068

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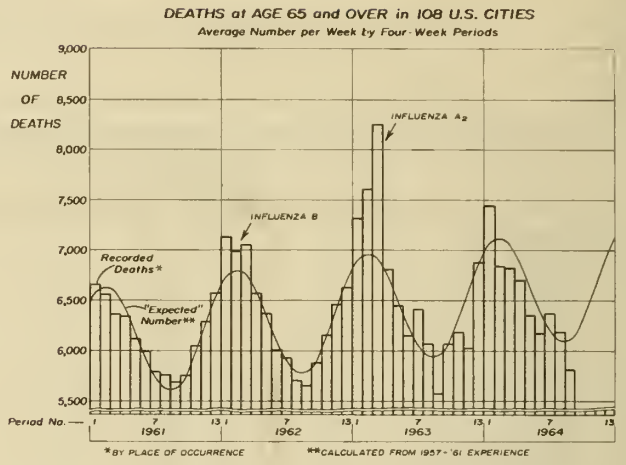
SUMMARY OF DEATHS AMONG PERSONS 65 YEARS AND OVER IN 108 U.S. CITIES

The weekly average number of deaths among persons 65 years and over in 108 cities for the four-week period ending September 5 was 5,858 as compared with an expected weekly average of 6,121.

	Week Ending				4 Week Total	Weekly Average
	8/15	8/22	8/29	9/5		
Observed	5,820	5,657	5,886	6,068	23,431	5,858
Expected	6,097	6,108	6,126	6,153	24,484	6,121
Excess	−277	−451	−240	−85	−1,053	−263



(See table page 319)

COLORADO

An additional 13 cases of suspected encephalitis have been reported in Colorado (See MMWR, Vol. 13, pg. 305). This brings to 24 the number of cases which have occurred since August 1. There have been no deaths.

The cases have been reported from 9 counties in separate areas of the State; 6 cases each have been recorded in Fort Collins and Adams Counties. The cases range in age from one to 65 years.

Sera from 3 cases have demonstrated significant HI antibody titer rises to Western Encephalitis virus; 2 of these cases occurred in 8 and 18-year-old males in Adams County (near Denver), the other in a 9-year-old girl in Weld County (near Greeley).

Serologic evidence of infection by St. Louis Encephalitis virus has been demonstrated in an 18-year-old male patient in Jefferson County (southwest of Denver). *(Reported by Dr. C. S. Mollohan, Chief, Division of Epidemiology, Colorado State Department of Public Health and a team from CDC.)*

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LAWRENCE K. ALTMAN, M.D., EDITOR
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COMMUNICABLE DISEASE CENTER
ATLANTA, GEORGIA 30333

NOTES: THESE PROVISIONAL DATA ARE BASED ON WEEKLY TELEGRAMS TO THE COMMUNICABLE DISEASE CENTER BY THE INDIVIDUAL STATE HEALTH DEPARTMENTS.

SYMBOLS: - - - DATA NOT AVAILABLE
- QUANTITY ZERO

PROCEDURES FOR CONSTRUCTION OF VARIOUS MORTALITY CURVES MAY BE OBTAINED FROM STATISTICS SECTION, COMMUNICABLE DISEASE CENTER, PUBLIC HEALTH SERVICE, U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, ATLANTA, GEORGIA 30333.

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